



AECOM
303 East Wacker Drive, Suite 900
Chicago, Illinois 60601

312.938.0300 tel
312.938.1109 fax

October 14, 2011

Mr. Kurt Pairitz, Senior Vice President
Powder Rock Glade, LLC
150 N Michigan Ave
Chicago, Illinois 60601

Sent via email: kpairitz@newcastlelimited.com

**Subject: Radiological Survey of Sidewalk/Right-Of-Way, Elevator Pit, Utility and Footing
Excavation
Permit No.: 171666347
Permit Address: 227 East Ontario Street
AECOM Project No.: 60222197**

Dear Mr. Pairitz,

Pursuant to conditions specified in the ROW (DOEROW03) form issued by the City of Chicago, radiation monitoring was performed at the 227 East Ontario Street Site in Chicago, Illinois ("the Site"). AECOM provided the required radiation surveillance between August 10 and October 5, 2011. This letter has been prepared by AECOM on behalf of Power Rock Glade, LLC to document radiation monitoring conducted during utility, sidewalk/right-of-way, elevator pit and footing excavation at the Site. An annotated drawing showing excavation locations is attached.

The monitoring revealed no indication of soils above the specified clean-up threshold established by the United States Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The USEPA threshold for Chicago's Streeterville area is 7.1 picocuries per gram (pCi/g) total radium (Ra-226 + Ra-228). The majority of the gamma radiation count measurements for the project were made using Ludlum Model 2221 survey meter and an unshielded 2 x 2 NaI probe (Model 44-10) with a 3-foot long cord. For the instrument used, the gamma count indicative of the USEPA cleanup threshold of 7.1 pCi/g total radium was 18,771 counts per minute (cpm) unshielded.

Radiation surveying was performed during concrete removal at the sidewalk, rights-of-way (ROW) along E. Ontario Street and during soil excavation required for planting of four trees along E. Ontario Street between August 10 and September 30, 2011. The four to six-inch thick concrete sidewalk and right-of-way was removed by Turner Construction Company (Turner). AECOM screened soil for elevated gamma radiation using the Ludlum Model 2221 survey meter and unshielded 2 x 2 NaI probe. Readings of exposed soil at sidewalk and right-of-way along E. Ontario Street ranged from 9,500 and 12,800 cpm unshielded. To prepare for planting of trees on the ROW along Ontario Street, Turner excavated soil in four, ten by ten-foot areas. AECOM screened soil for radiation in increments (lifts) of approximately fifteen-inches to a final depth of approximately 3-feet below the ground surface (bgs) in each area. Readings of soil in the four above described areas ranged from 8,600 to 14,500 cpm unshielded.

Radiation surveying was performed during excavation of the elevator pit at the northeastern section of the building interior between August 10 and August 15, 2011. Turner excavated soil from the approximately 14 x15-foot elevator pit. AECOM screened soil for elevated gamma radiation in increments of approximately fifteen-inches to a final depth of approximately 4-feet bgs in the elevator pit area. Gamma radiation readings of soil in the elevator pit and surrounding area ranged from 3,600 to 17,700 cpm unshielded. The highest readings were observed within the excavation where the material contained a significant proportion of clay and brick debris. These higher readings are not attributed to Lindsay Light thorium contamination, but instead are the result of naturally elevated gamma readings typical for these materials. Gamma readings conducted within the excavation with a shielded probe where the highest

counts were observed ranged from 6,100 to 6,600 cpm. These shielded readings did not exceed the shielded probe cutoff value of 7,122 cpm that is equivalent to the USEPA cleanup threshold of 7.1 pCi/g total radium.

Radiation surveying was performed during the excavation associated with the installation of a ComEd utility trench in the northeastern portion of the site and a waterline trench repair located on the eastern side of the sidewalk and ROW along E. Ontario Street and during the repair of a drain and piping located in the central portion of the Site between August 10 and September 21, 2011. Turner excavated ComEd utility trench soil to a depth of about 3-ft bgs, waterline trench soil to a depth of about 5-ft bgs and drain and piping pit soil to a depth of about 6-ft bgs. AECOM screened soil for elevated gamma radiation using the Ludlum Model 2221 survey meter and unshielded 2 x 2 NaI probe. Soil was screened in increments of approximately fifteen-inches. Radiation readings from the ComEd utility trench, waterline trench and drain and piping repair pit ranged from 12,221 to 13,600 cpm unshielded, 8,900 to 11,900 cpm unshielded and 8,800 to 17,500 cpm unshielded, respectively.

Turner excavated the soil associated with the installation of the southern footing between September 29 and October 5, 2011. AECOM screened soil for radiation in increments of approximately 15-inches to a final depth of approximately six-ft bgs in the southern footing area. Gamma radiation readings of soil in southern footing area ranged from 8,600 to 14,500 CPM unshielded.

As indicated previously, the monitoring revealed no indication of soils above the specified clean-up threshold established by the United States Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The USEPA threshold for Chicago's Streeterville area is 7.1 picocuries per gram (pCi/g) total radium (Ra-226 + Ra-228). Gamma radiation count measurements for the project were made using Ludlum Model 2221 survey meter and an 2 x 2 NaI probe (Model 44-10) with a 3-foot long cord. For the instrument used, the gamma count indicative of the 7.1 pCi/g threshold was 18,771 cpm unshielded and 7,122 cpm shielded. The field gamma measurements within the excavations and of the spoil materials generated did not exceed the respective threshold values previously stated that would be indicative of thorium contaminated materials. Thus, there was no indication of the presence of radiologically-impacted material and/or an exceedance of the USEPA cleanup threshold of 7.1 pCi/g total radium.

Finally, as part of the permit conditions, this letter has been forwarded to:

Chicago Department of Environment
Attention: Ms. Rahmat Begum
30 North LaSalle Street, 25th Floor
Chicago, Illinois 60602

Please contact us with any questions you have regarding this letter or the reported results.

Regards,



Joshua Rowe
Project Scientist II



Steven C. Kornder, Ph.D.
Senior Project Geoscientist

cc: Rahmat Begum, Chicago Department of Environment
Verneta Simon, USEPA

Attachments: CDOE Permit and Drawing/Sketch



City of Chicago
Richard M. Daley, Mayor

Department of Environment

Suzanne Malec-McKenna
Commissioner

2nd Floor
30 North LaSalle Street
Chicago, Illinois 60602-2575
(312) 744-7606 (Voice)
(312) 744-6451 (FAX)
(312) 744-3586 (TTY)

<http://www.cityofchicago.org>

Permit No.

171666347

Date

8/4/11

Site Address E. Ontario

227 E. Ontario St.
Chicago, IL 60603

Work Location (Describe
exact site location and
attach map)

Ontario St. between
Fairbanks and
St. Clair

Nature of Work

New Water Service
New Elec Service

Expected Start Date

8/16/11

CITY OF CHICAGO DEPARTMENT OF ENVIRONMENT FORM NO. DOE.ROW.03

Notice is hereby given that the site you have requested a permit for is recorded with the City of Chicago Department of Environment as potentially having environmental contamination on the site and adjacent right-of-way. This environmental contamination could present a threat to human health and safety in connection with work performed at the site, or in the adjacent right-of-way, if proper safeguards are not employed.

A file containing detailed information regarding the aforementioned environmental contamination is available for review at the Department of Environment at 33 N. LaSalle St., Suite LL-120, Chicago, Illinois 60602 during normal business hours (8:30AM-4:30PM, Monday through Friday). Contact (312) 744-7606 for an appointment. This file must be reviewed and the remainder of this form completed before the permit can be issued if the ground is exposed or excavated. **Please note that for some locations, additional health and safety procedures may be required by law.**

Please complete the following:

I have reviewed and understand the documents, maintained by the Department of Environment, regarding environmental contamination of the site and adjacent right-of-way. Further, I will ensure that all work at the subject site and adjacent right-of-way, and any monitoring required including but not limited to radiation monitoring, will be performed in a manner that is protective of human health and the environment and in compliance with all applicable local, state, and federal laws, rules, and regulations, especially those pertaining to worker safety and waste management. I will ensure that the results of any radiation monitoring and/or surveying conducted shall be provided to the Department of Environment and the United States Environmental Protection Agency within two (2) weeks of their completion. If any elevated levels of radioactive material are detected, I will immediately contact the United States Environmental Protection Agency at (800) 424-8802.

Applicant Name (print)

Steven McKessey

Signature

Stm

Date

8/9/11

Company

Turner Construction

Company Address / Phone No.

55 E. Monroe Suite 3100

Check if City Department Work ☐ Department Name

General / Prime Contractor

Turner Construction

Include subcontractor information if applicable

Address

55 E. Monroe Suite 3100

Phone No.

312-833-8855

Safety Officer / Phone No.

Mike Blackburn / 312-327-2827

Radiation Contractor / Phone No. (if applicable)

AE Com, Steve Kornder, 847-274-2500

Department of Environment Approval / Date

Rahmatunsa Begum

8/9/2011

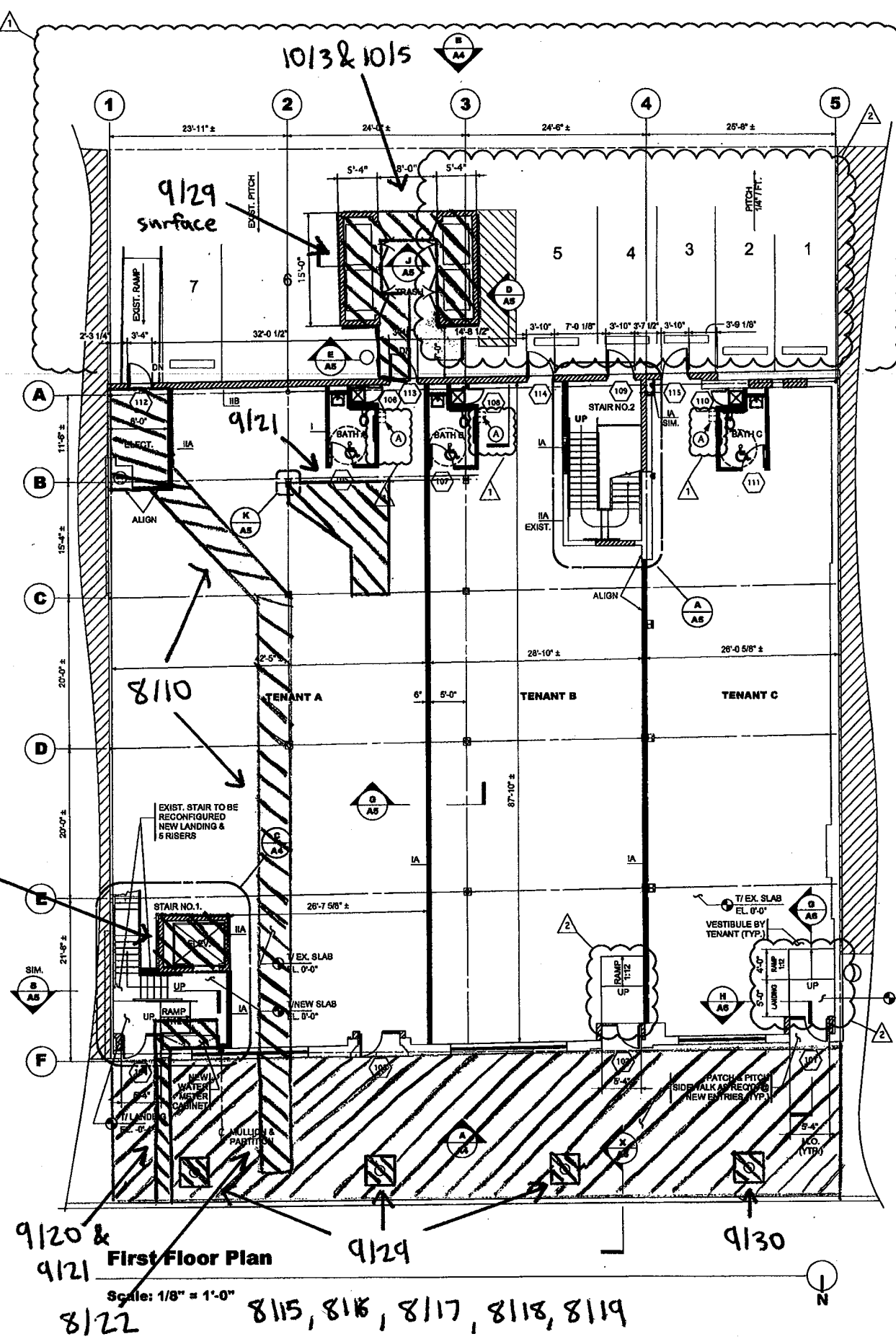
Please return this completed form to the City of Chicago Department of Transportation at 30 N. LaSalle St., Room 1101, Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday).

For DOE Use Only



Revised June 18, 2010

81102
8116



First Floor Plan

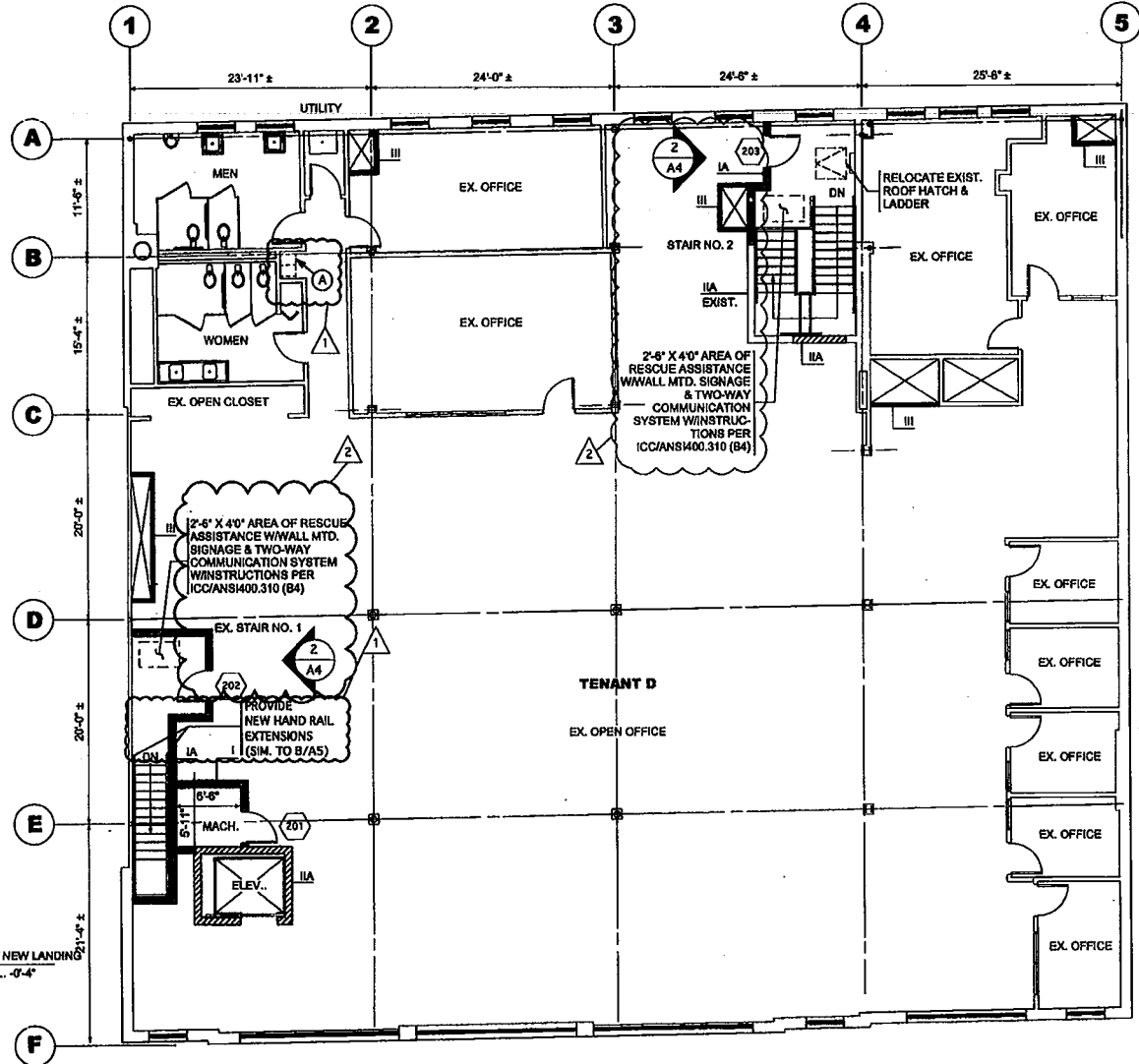
Scale: 1/8" = 1'-0"

8115, 8116, 8117, 8118, 8119

Sidewalk removal

PLAN NOTES

(A) HIGH/LOW ADA COMPLIANT DRINKING FOUNTAIN WITH APRON AT MAXIMUM 27" ABOVE FINISH FLOOR IN ACCORDANCE WITH IAC SEC. 400 ILLUSTRATION B FIGURE 27 (NOT IN CONTRACT).



Second Floor Plan

Scale: 1/8" = 1'-0"

LEGEND	
	EXISTING CONSTRUCTION TO REMAIN
	EXISTING CONSTRUCTION TO BE REMOVED
	NEW MASONRY CONSTRUCTION
	NEW INTERIOR PARTITION, ROMAN NUMERAL INDICATES PARTITION TYPE. SEE DRAWING A5
	ELEVATION TARGET
	DOOR TARGET
	DETAIL INDICATION
	NOTE INDICATION
	SECTION INDICATION

No.	Date	Description
1	7/8/2011	REVISED FOR PERMIT
2	6/8/2011	REVISED FOR PERMIT
3	4/11/2011	FOR PERMIT

Job No. GAK No. 5896

Addition & Remodeling for Pre-tenant Buildout 227 East Ontario Street Chicago IL

GK GEORGE A. KENNEDY & ASSOCIATES, LTD.
ENGINEERS
CONSTRUCTION CONSULTANTS
307 NORTH MICHIGAN AVENUE, SUITE 700
CHICAGO, ILLINOIS 60611
TEL: 312.332.7060 FAX: 312.332.5368
projects@gakllc.com

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SCALE AS NOTED	A-3
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